## Section 3. Amendments to the Claims

Please cancel claim 33, add new claim 32 and amend claims 1-10 and 12-31 as set out below in the listing of claims 1-33 of the application:

- 1. (Currently amended) Apparatus for the storage of a protein (20) comprising a first compartment (30) for storing the protein (20) and a second compartment (40) for storing an alkaline buffer (50), the second compartment (40) being in fluid communication with the first compartment (30).
- 2. (Currently amended) Apparatus according to claim 1, wherein the alkaline buffer (50) contains calcium ions.
- 3. (Currently amended) Apparatus according to claim 1 or 2, wherein the alkaline buffer (50) is selected from the group of alkaline buffers including ammonia solutions, ammonium acetate, ammonium formate, tris/HCl, HEPES, PIPES, sodium carbonate, potassium carbonate, sodium phosphate, potassium phosphate or a mixture of these.
- 4. (Currently amended) Apparatus according to <u>claim 1</u> any of the above claims, wherein the alkaline buffer (50) contains 50-700 mM calcium ions.
- 5. (Currently amended) Apparatus according to <u>claim 1</u> any of the above claims, where the alkaline buffer (50) also contains sodium azide.
- 6. (Currently amended) Apparatus according to <u>claim 1</u> any of the above claims where at least part of the surface of the inner walls of the first compartment (30) are formed from or coated with a material with low surface energy.
- 7. (Currently amended) Apparatus according to <u>claim 1</u> any of the above claims in which the alkaline buffer (50) is in a gaseous form.
- 8. (Currently amended) Apparatus according to <u>claim 1</u> any-one of claims 1 to 6 in which the alkaline buffer (50) is separated from the protein (20) by a dialysis membrane (60).
- 9. (Currently amended) Apparatus according to <u>claim 1</u> any one of the above claims wherein the protein (20) is mixed with an alkaline solution.
- 10. (Currently amended) Apparatus according to <u>claim 1</u> the above claims wherein the protein (20) is mixed with at least one alkaline buffer salt or salts.

- 11. (Original) Apparatus according to claim 10, wherein the at least one alkaline buffer salt or salts also contains sodium azide, phenyl thiourea, sodium cyanide or potassium cyanide.
- 12. (Currently amended) Apparatus according to <u>claim 9</u> one of any one of claims 9 to 11, wherein the alkaline solution <u>comprises</u> is 0.1 M ammonium hydroxide, ammonium acetate, <u>ammonium</u> formate, ammonium citrate, tris/HCl, PIPES, HEPES, sodium carbonate, potassium carbonate, sodium phosphate, potassium phosphate buffer, or a mixture <u>comprising two or more of the</u> foregoing of these buffer with a pH greater than 7.4.
- 13. (Currently amended) Apparatus according to <u>claim 1</u> any one of the above claims wherein the pH of the alkaline buffer (50) is greater than 7.4.
- 14. (Currently amended) Apparatus according to <u>claim 1</u> any of the above elaims wherein the concentration of the alkaline buffer (50) or combined buffers is equal to or greater than 0.025M
- 15. (Currently amended) Apparatus according to <u>claim 1</u> any of the above claims wherein the protein (20) is a natural, regenerated or recombinant protein, a mixture of natural proteins, a mixture of regenerated proteins or a mixture of recombinant proteins.
- 16. (Currently amended) Apparatus according to <u>claim 1</u> any of the above claims wherein the protein (20) is fibroin or spidroin or a homologue homolog thereof.
- 17. (Currently amended) Apparatus according to <u>claim 1</u> any of the above claims wherein the proteins (20) are repetitive amphiphilic block co-polymeric proteins or protein <u>analogs analogues</u> containing charged groups and which are prepared by chemical synthesis or genetic engineering.
- 18. (Currently amended) Method for the storage of a protein (20) comprising: [[-]] a first step of placing the protein in a first storage compartment (30); [[-]] a second step of exposing the protein (20) to an alkaline buffer (50); and [[-]] a third step of maintaining maintaining the protein (20) in the alkaline environment in the first storage compartment (30).
- 19. (Currently amended) Method according to claim 18, wherein the period of time for maintaining the protein (20) in the first storage compartment (30) is at least one minute.
- 20. (Currently amended) Method according to claim 18 or 19, wherein the alkaline buffer (50) contains calcium ions.

- 21. (Currently amended) Method according to <u>claim 18</u> one of claims 18 to 20, wherein the alkaline buffer (50) is selected from the group of alkaline buffers consisting of ammonia solutions, ammonium acetate, ammonium formate, ammonium citrate Tris/HCl, HEPES, PIPES, sodium carbonate, potassium carbonate, sodium phosphate, potassium phosphate <u>and mixtures comprising</u> two or more of the foregoing or a mixture of these buffers.
- 22 (Currently amended) Method according to <u>claim 18</u> any one of claims 18 to 21, wherein the alkaline buffer contains 50-700 mM calcium ions.
- 23. (Currently amended) Method according to <u>claim 18</u> any one of claims 18 to 22 in which the alkaline buffer (50) is in a gaseous form.
- 24. (Currently amended) Method according to <u>claim 18</u> any one of claims 18 to 23 in which at least one alkaline buffer salt is added to the protein (20).
- 25 (Currently amended) Method according to claim 24 in which the <u>at least one</u> alkaline buffer <u>salt</u> salts also eontain contains sodium azide, phenyl thiourea, sodium cyanide or potassium cyanide.
- 26 (Currently amended) Method according to <u>claim 18</u> any one of claims 18 to 25, wherein the alkaline buffer (50) is separated from the protein by a dialysis membrane (60).
- 27 (Currently amended) Method according to claim 18 any one of claims 18 to 26 wherein the pH of the alkaline buffer (50) is greater than 7.4.
- 28. (Currently amended) Method according to <u>claim 18</u> any one of claims 18 to 27 wherein the protein (20) is mixed with an alkaline solution prior to storage (50).
- 29 (Currently amended) Method according to <u>claim 18</u> any one of claims 18 to 28 wherein the concentration of the alkaline buffer (50) or combined buffers is equal to or greater than 0.025 M.
- 30 (Currently amended) Method according to <u>claim 18</u> any of claims 18 to 29 wherein the protein (20) is a natural, regenerated or recombinant protein, a mixture of natural proteins, a mixture of regenerated proteins or a mixture of recombinant proteins.
- 31. (Currently amended) Method according to <u>claim 18</u> any of claims 18 to 30 wherein the protein (20) is fibroin or spidroin or a <u>homolog</u> homologue thereof.

32. (New) Method according to claim 18, wherein the protein comprises protein selected from the									
group	consisting	of repetitive	amphiphilic	block	co-polymeric	proteins	and	protein	analogs
containing charged groups.									

33. (Canceled)